

DaimlerChrysler AG

Patent claims

- 5 1. A series of components for a vehicle seat (1) of a motor vehicle, each vehicle seat (1) having a cushion core (2)
- 10 - with ventilation ducts (4) running along and inside a seat surface (3) and/or backrest surface, and
- 15 - with ventilation channels (5) which are arranged essentially transversely to the ventilation ducts (4), penetrate the entire thickness of the cushion core (2) and extend from the ventilation ducts (4) as far as a rear wall (6) facing away from the seat surface (3) and/or backrest surface,
- 20 characterized in that, in order to realize a passively ventilated vehicle seat (1), the ventilation channels (5) are connected in a flow-permeable manner to the surroundings via an opening (7) in the rear wall (6), whereas, in order to realize an actively ventilated vehicle seat (1), at least one fan (8) is provided and at
- 25 least one ventilation channel (5) is closed.
2. The series of components as claimed in claim 1, characterized in that each cushion core (2) has, on its rear wall (6), a flow-impermeable layer (9)
- 30 which, in order to realize the passively ventilated vehicle seat (1), is pierced or removed in the mouth region (10) of at least one ventilation channel (5).
- 35 3. The series of components as claimed in claim 1, characterized in that each cushion core (2) has, on its rear wall (6), a respective opening (7) in the mouth region (10) of the ventilation channels

(5), of which, in order to realize the actively ventilated vehicle seat (1), at least one is closed.

- 5     4.     The series of components as claimed in claim 2, characterized in that the flow-impermeable layer (9) is designed as a plastic layer and/or felt layer.
- 10    5.     The series of components as claimed in claim 4, characterized in that the plastic layer is designed as a film.
- 15     6.     The series of components as claimed in one of claims 1 to 5, characterized in that the ventilation ducts (4) are designed as a duct grid (11) and intersect in a manner connected in terms of flow.
- 20    7.     The series of components as claimed in one of claims 1 to 6, characterized in that an arrangement of the ventilation ducts (4) and/or ventilation channels (5) is adapted to a body pressure distribution and/or to body contact points.
- 25     8.     The series of components as claimed in one of claims 1 to 7, characterized in that the ventilation ducts (4) and/or ventilation channels (5) are arranged essentially regularly.
- 30     9.     The series of components as claimed in one of claims 1 to 8, characterized
- 35       - in that, in the case of the actively ventilated vehicle seat (1), at least one inflow channel (12) is provided through which ambient air passes into the vehicle seat (1), and

- at least one outflow channel (13) is provided through which air passes from the vehicle seat (1) into the surroundings,
- in that closed ventilation channels (5) are arranged between the inflow channel (12) and the outflow channel (13).

10. The series of components as claimed in one of claims 1 to 9, characterized in that a controllable ventilation channel closure is provided which interacts with the fan (8) and permits either an active or a passive ventilation of the vehicle seat (1).

11. An actively ventilated vehicle seat (1) of a motor vehicle, each vehicle seat (1) having a cushion core (2),

- with ventilation ducts (4) running along and inside a seat surface (3) and/or backrest surface, and

- with ventilation channels (5) which are arranged essentially transversely to the ventilation channels (4), penetrate the entire thickness of the cushion core (2) and extend from the ventilation ducts (4) as far as a rear wall (6) facing away from the seat surface (3) and/or backrest surface,

- with at least one fan (8),

characterized in that, in order to realize an actively ventilated vehicle seat (1), at least one ventilation channel (5) is closed.

12. The actively ventilated vehicle seat as claimed in claim 11, characterized by at least one of the characterizing features of claims 1 to 10.